

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
14 April 2005 (14.04.2005)

PCT

(10) International Publication Number
WO 2005/034531 A3

(51) International Patent Classification:
H04B 7/26 (2006.01) H04B 7/216 (2006.01)
H04Q 7/38 (2006.01)

(74) Agents: BAHNG, Hae, Cheol et al.; KBK & Associates,
15th Floor Yo Sam Building 648-23, Yeoksam-dong, Kang-
nam-gu, Seoul 135-080 (KR).

(21) International Application Number:
PCT/KR2004/002552

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 6 October 2004 (06.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10-2003-0070416 9 October 2003 (09.10.2003) KR
10-2004-0073738 15 September 2004 (15.09.2004) KR

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for all designated States except US): LG
ELECTRONICS INC. [KR/KR]; 20, Yoido-dong,
Youngdungpo-gu, Seoul 150-721 (KR).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(72) Inventors; and

(75) Inventors/Applicants (for US only): KYUNG, Chan,
Ho [KR/KR]; Na-104, Wook-il Apt., Bugae 3-dong,
Bupyeong-gu, Incheon, 403-103 (KR). AN, Jong, Hoe
[KR/KR]; 1305-808, Sinsigaji Apt. 13-Danji, Sinjeong
6-dong, Yangcheon-gu, Seoul 158-773 (KR). KIM, Ki,
Jun [KR/KR]; Seocho Hanshin Apt., 101-1202 Seo-
cho-dong, 1533, Seocho-ku, Seoul 137-070 (KR). LEE,
Young, Jo [KR/KR]; 108-602, Jaegung-dong, Gunpo-si,
Kyeonggi-do 435-055 (KR).

(88) Date of publication of the international search report:
23 March 2006

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF GENERATING PLCM FOR BROADCAST/MULTICAST SERVICE AND APPARATUS THEREOF

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|--------------|
| 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | BCMC_FLOW_ID |
|---|---|---|---|---|---|---|---|---|---|--------------|

(57) Abstract: A method of generating a public long code mask for a broadcast/multicast service and apparatus thereof are provided, by which, upon performing the broadcast/multicast service, an overhead of a base station or a mobile terminal can be reduced and a delay occurring in the base station or mobile terminal can be reduced. In a method of carrying out a broadcast/multicast service provided via a channel of a mobile communication system, the method includes steps of receiving a flow identifier (BCMC_FLOW_ID) indicative of the broadcast/multicast service; and generating, based on the received flow identifier, a public long code mask (PLCM) for the channel providing the broadcast/multicast service (BCMC).

WO 2005/034531 A3